TRACEMAN HD

IMAGE SCANNING & LINE TRACING TOOL

Product Overview

February 28, 2006

CELSYS

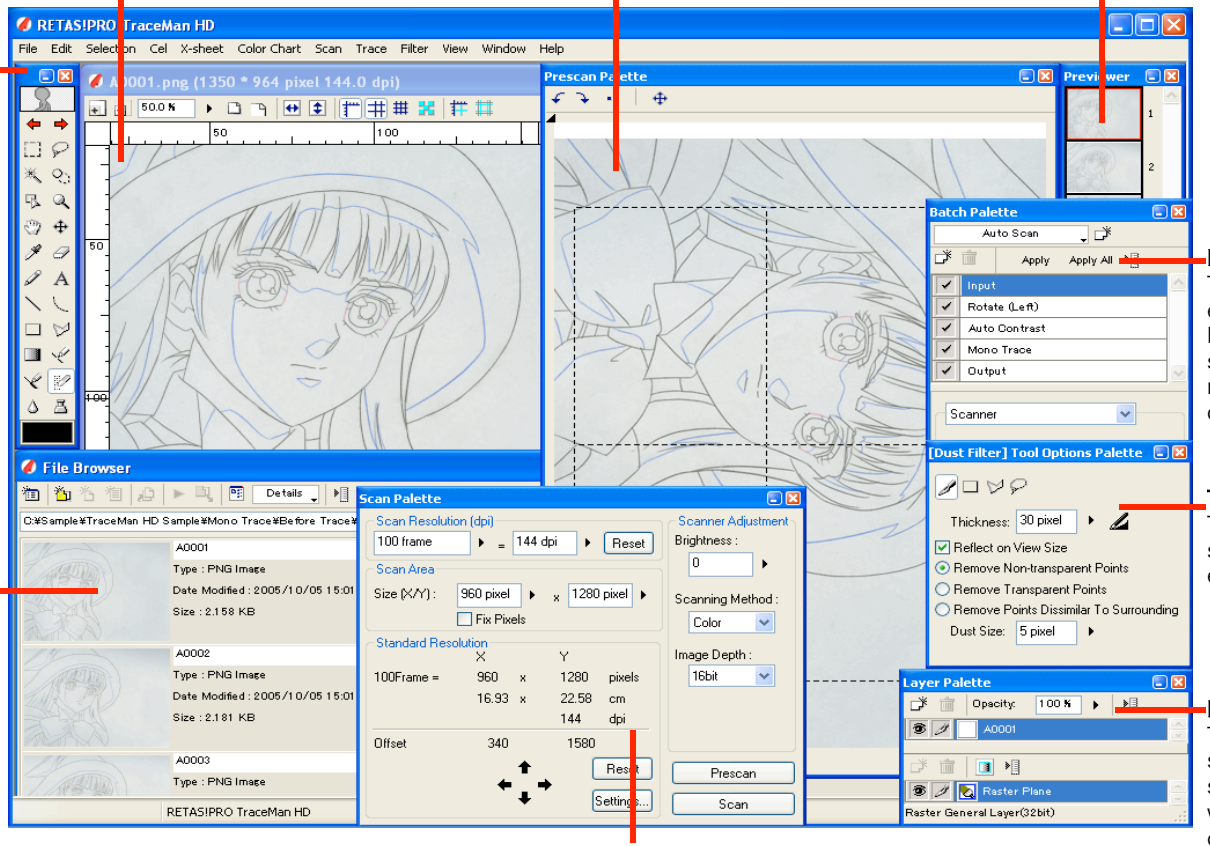
TraceMan HD Screenshot

Cel window
This is the window for editing images. This window is equivalent to the layout paper or inbetween drawing paper used when working with paper.

Prescan Palette
This palette gives a preview of the scanner document table.

File Previewer
This palette is for switching the sequentially numbered files to work on.

Tool Palette
This palette is a collection of tools used for editing, for example.



File Browser window
This window is for browsing image files and managing the scene folders.

Batch Palette
This palette is for executing [Batch Processing] where the same processing is repeated for multiple data.

Tool Options Palette
This palette is for setting the options for each of the tools.

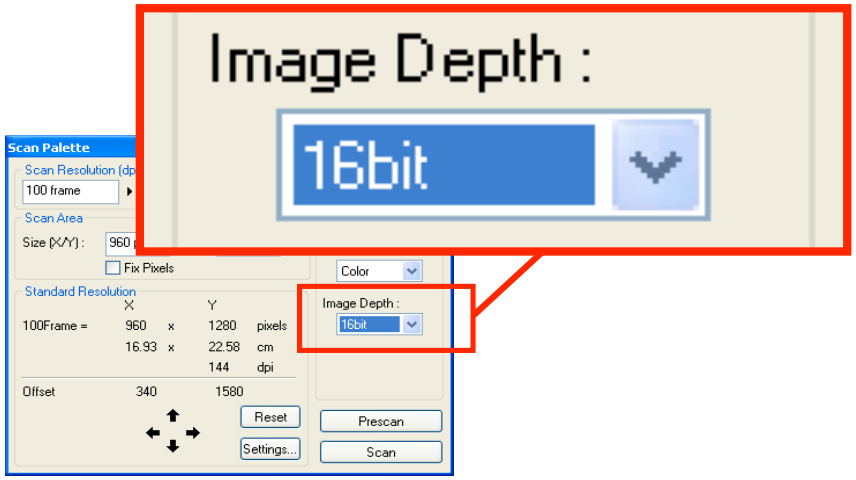
Layer Palette
This palette is for setting the layers, such as the order in which they are to be overlapped, whether a particular layer should be visible or hidden, etc.

Scan Palette
This palette is for setting the standard resolution, brightness, color depth, etc. for scanning.

Scanning Functions

48-bit scanning

• The 48 bits (16 bits for each of the RGB channels) deep depth scan capability allows you to keep the degradation of images due to phenomenon such as tone jump or Mach band at tone adjustment to the minimum.



Auto scanning

• A one-key operation that allows for continuous scanning of inbetweens.
The function is designed to make scanning of large amounts of images easier by implementing one-touch operation for functions such as numbering of consecutive images or sorting of images to corresponding folders.

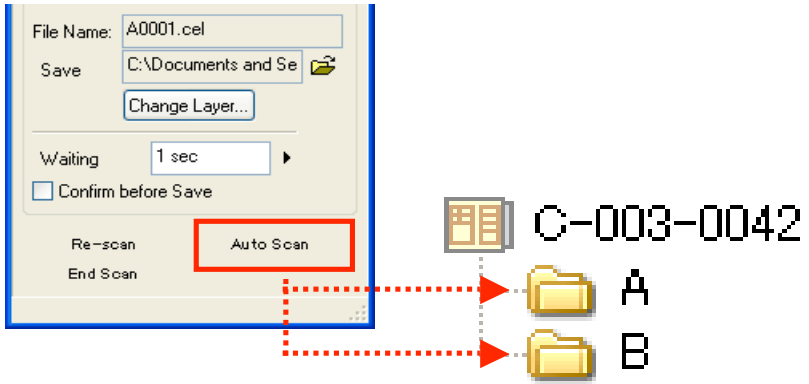
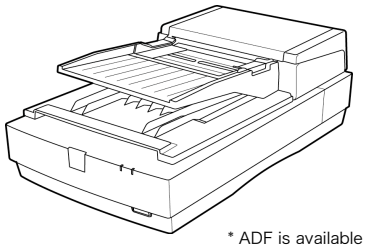


Image data scanned with [Auto Scan] can be sorted to the corresponding folders with a one-touch operation.

ADF scanning

• ADF (Auto Document Feeder) automates the feeding of drawings.
• This function is very convenient when speed is critical such as during the [Layout Shooting] or [Keys Shooting].



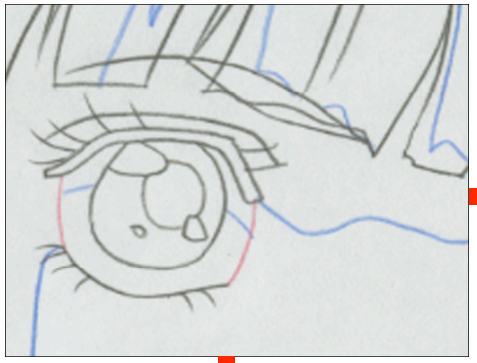
* ADF is available only in models supporting the function.

Tracing Functions (1)

Images scanned with TraceMan HD cannot be painted with PaintMan HD as they are. They must be [Traced] first.

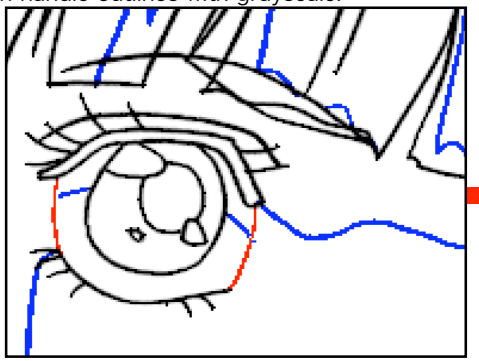
Image before tracing

• Image traced by TraceMan HD



Gray Trace

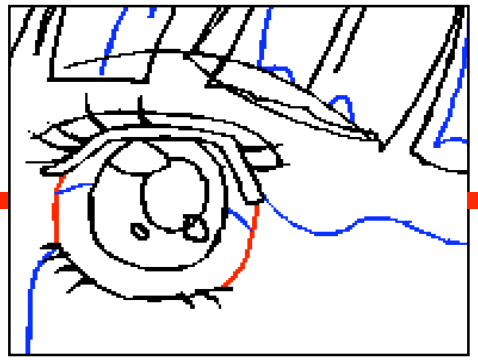
• The image is separated in [Gray Lines] which represents the outlines, and [Color Separation Lines (R, G, B, and others)].
• Gray trace can handle outlines with grayscale.



To PaintMan HD

Mono Trace

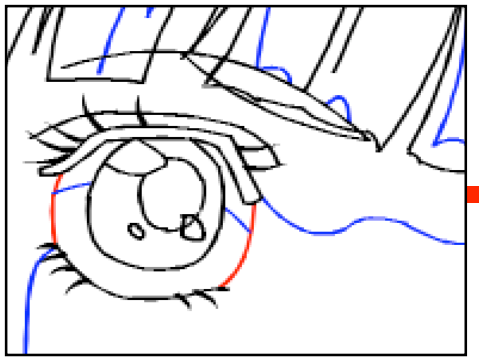
• The image is separated in [Mono Traced] outlines and [Color Separation Lines (R, G, B, and others)].



To PaintMan HD

Vector Trace

• Image is separated in a vectorized [Outline] and a [Painting] plane that includes the vectorized color separation lines.

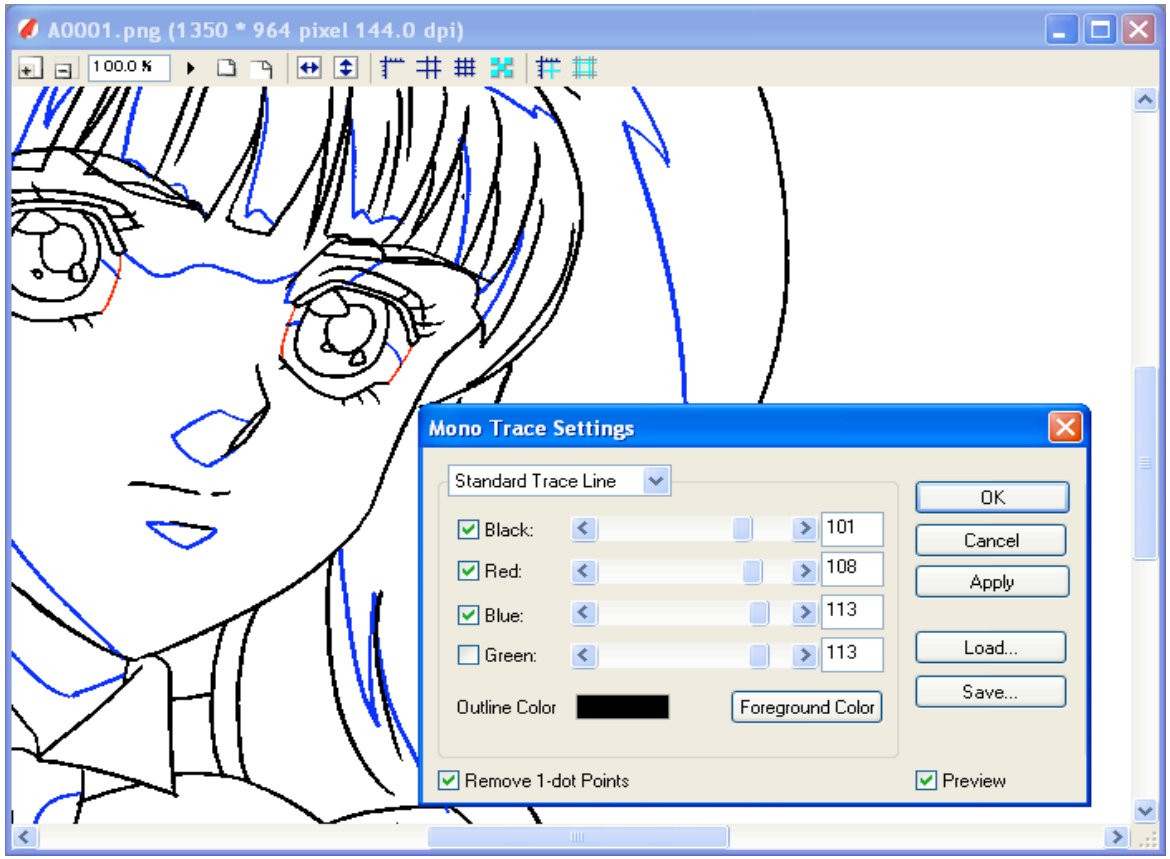


To PaintMan HD

Tracing Functions (2)

Improved Mono Trace Settings dialog box

- A window with the image, opened in the background of the [Mono Trace] dialog box can be used as preview window.
- Window resizing, scrolling, zooming in/out can be done with the [Mono Trace Settings] dialog box opened



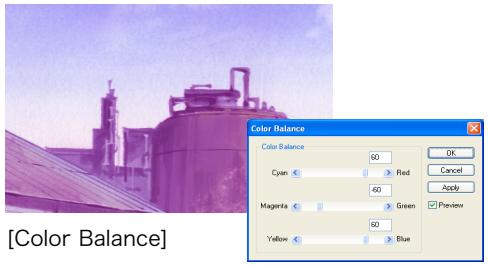
Tone Adjustment Functions

Filter

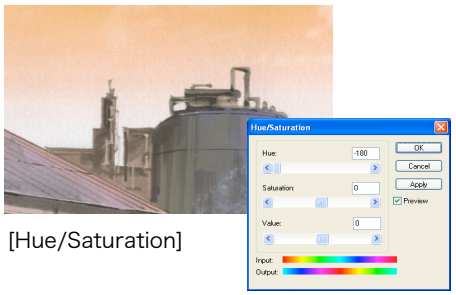
• TraceMan is equipped with a number of filters for tone adjustment.

[Unsharp Mask]

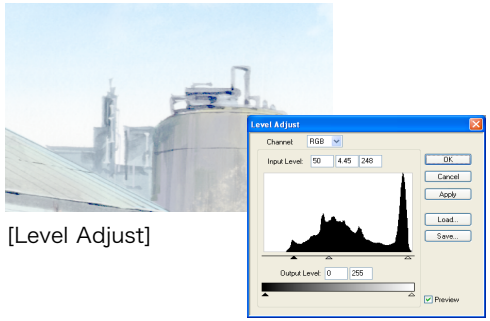
[Gaussian Blur]



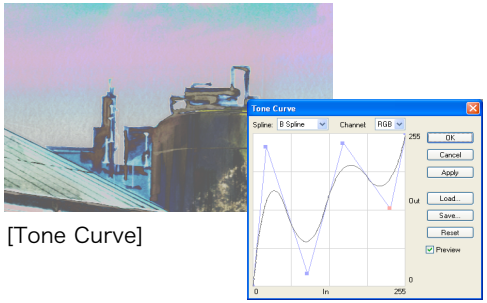
[Color Balance]



[Hue/Saturation]



[Level Adjust]

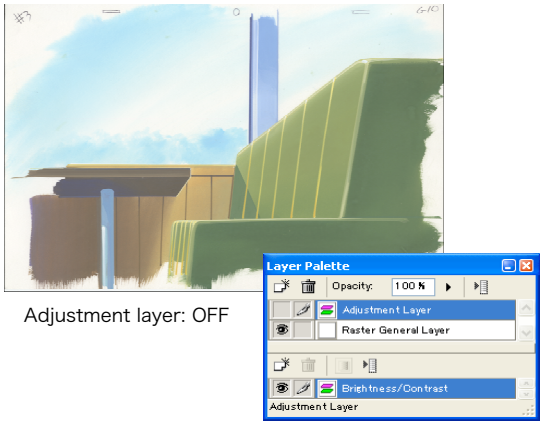


[Tone Curve]

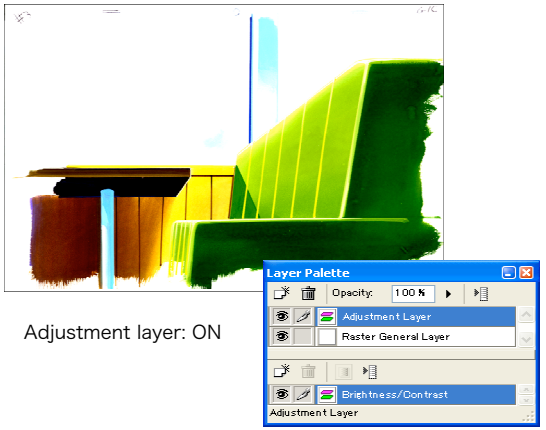
• Total of 14 types, namely [Sharpen], [Blur], [Invert], [Auto Contrast], [Brightness/Contrast], [Tone Curve], [Level Adjust], [Hue/Saturation], [Color Balance], [Dust Filter], etc.

Adjustment Layer

• The layer for performing tone adjustments on the image.
• Tone adjustment settings can be changed later as well as reset.



Adjustment layer: OFF

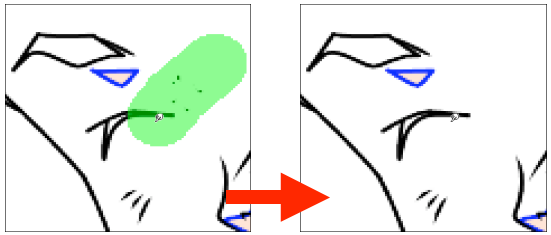


Adjustment layer: ON

Retouch Functions

Dust Filter

• Dust is wiped away from parts selected by dragging the [Dust Filter] tool.

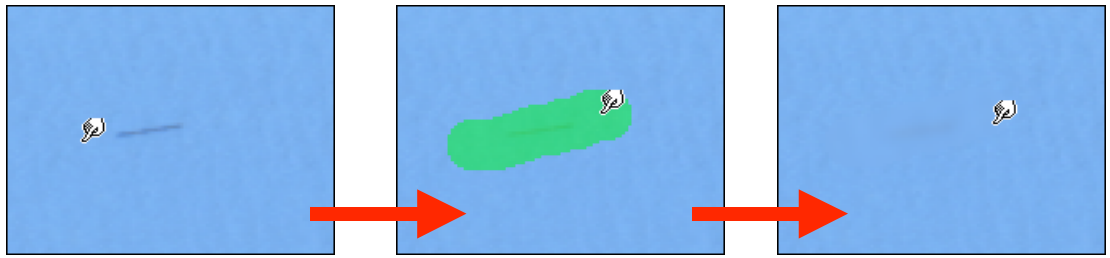


Before using the [Dust Filter] tool

After using the [Dust Filter] tool

Blur

• Blur is applied to parts selected by dragging the mouse pointer.
• This function is convenient for correcting scratches and dirt on the BG.

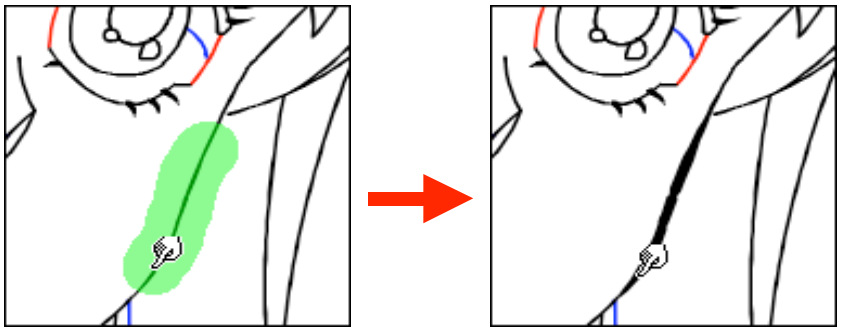


Before using the [Blur] tool

After using the [Blur] tool

Change Width

• This function allows you to change the thickness of drawn lines from thick to thin, or make uniform a non-uniform line.

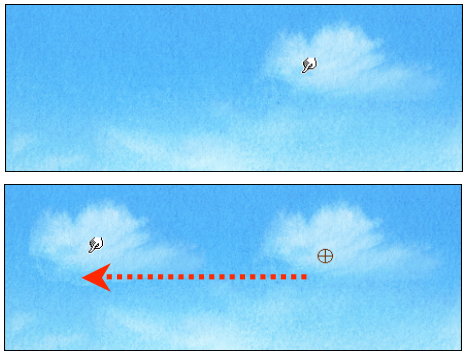


Before using the [Change Width] tool

After using the [Change Width] tool

Stamp

• This function allows you to copy a part of the image to a distant position by dragging.
• This function is convenient in retouching operations such as eliminating the joint in BG.



Before using the [Stamp] tool

After using the [Stamp] tool

[Alpha Channel Support]
• Transparency of the [General Raster Layer] used for scanning BG can be adjusted by editing the alpha channel.

Batch Processing Function

- [Batch Processing] refers to a series of predefined processes executed on a large amount of image files.
- In TraceMan HD, [Batch Palette] is used for batch processing.
- By default, the batch set includes [Auto Scan] and [Change Width]. However, the user can create his/her own set.

[Example: Auto Scan]

Input

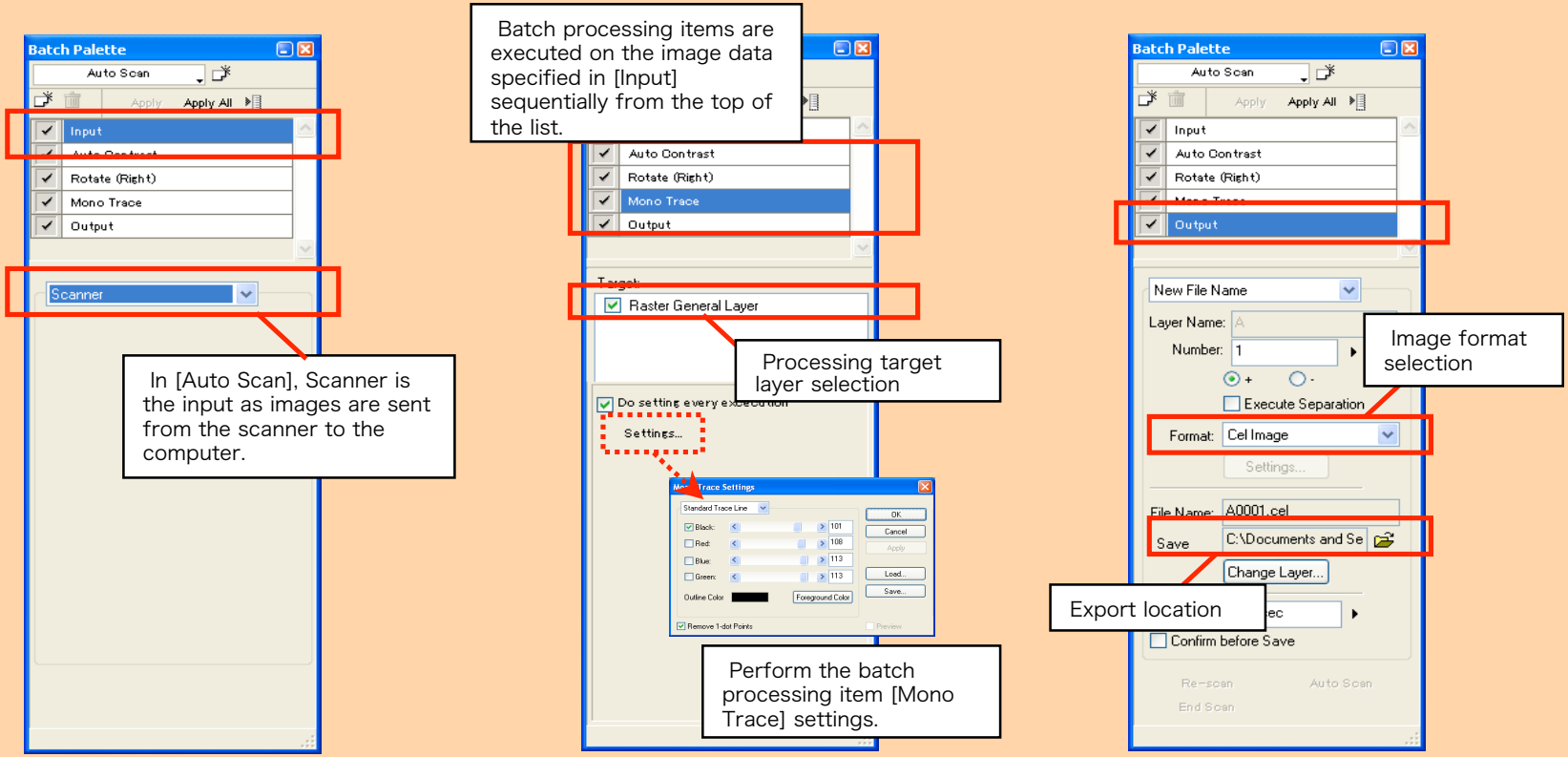
- Specify the images to be subject to batch processing.

Batch processing items

- The series of procedures (commands) included in the batch processing items list is executed on the image loaded in [Input].

Output

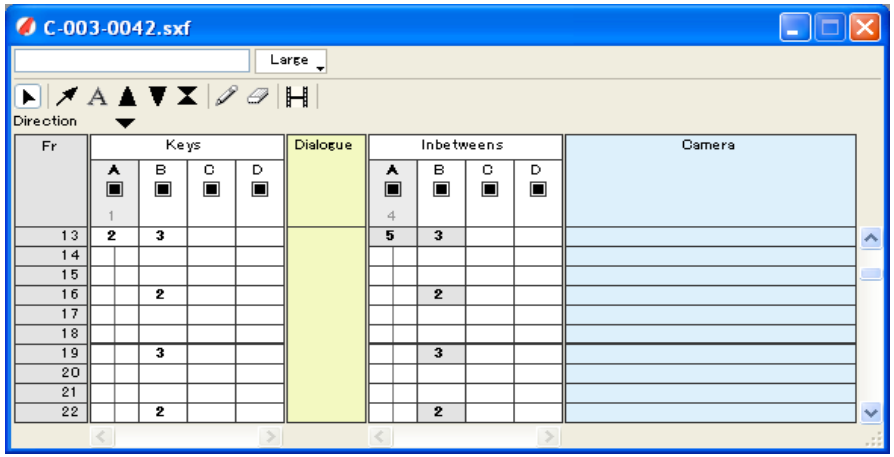
- Batch processed image is exported to a specified location.

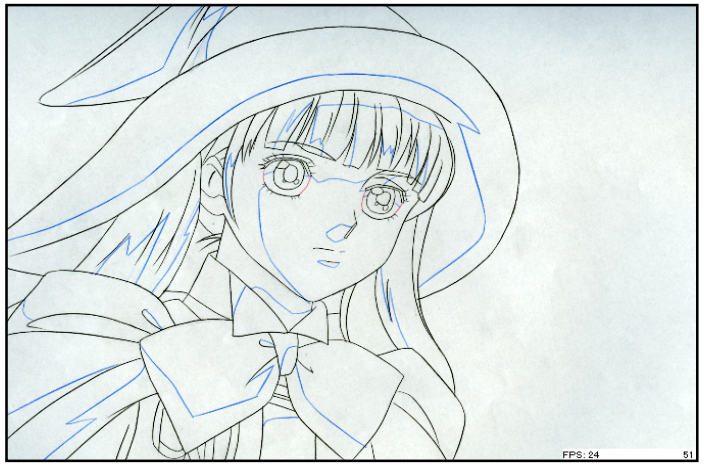


Motion Check Functions

Motion Check

• This function allows you to check the motion of pictures according to timings set in the X-sheet.

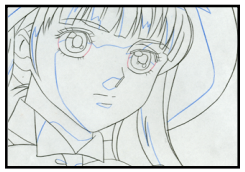


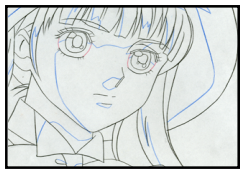


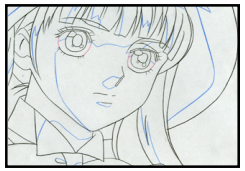
[Frame-by-frame advance using the Arrow key]

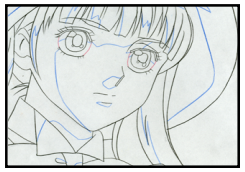
← → Key

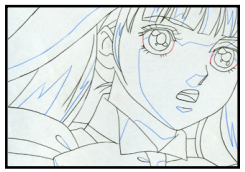
• Advances the animation by one frame at a time unconditionally.


Frame 31


Frame 32

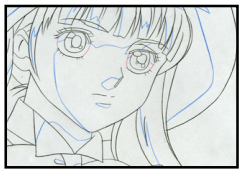

Frame 33


Frame 34

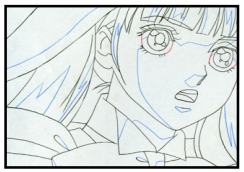

Frame 35

↑ ↓ Key

• Advances the animation by frames, skipping those without any changes.


Frame 31

↓ Pressing the key skips all frames without motion


Frame 35

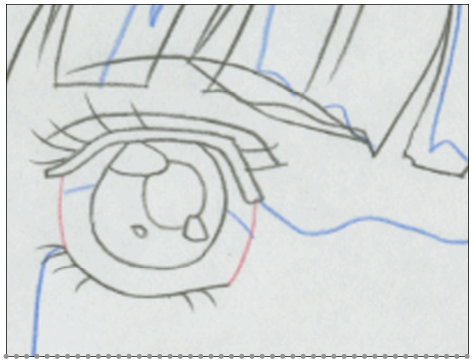
Multi-layer function

With TraceMan HD, it is possible to work efficiently because works can be done on different layers depending on your needs.

Layer of the image before tracing

[Raster General Layer]

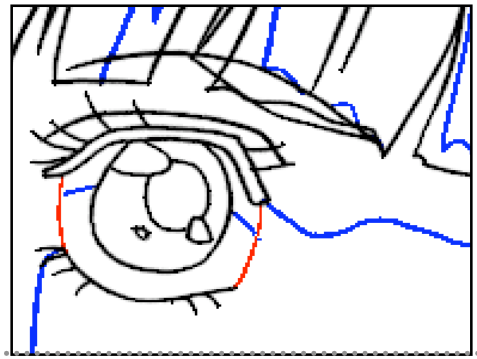
- Image before tracing with TraceMan HD.
- BG is not traced and passed on to downstream process as it is.



Gray traced image layer

[Gray Paint Layer]

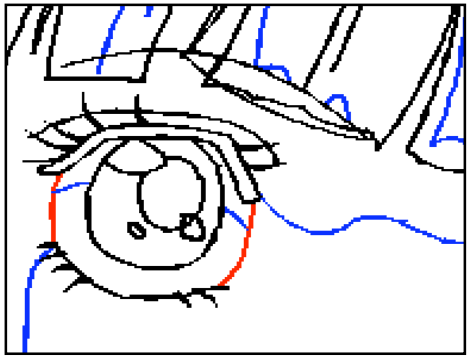
- Image as gray traced with TraceMan HD.
- The layer includes two planes: the [Gray Line] and the [Paint].



Mono traced image layer

[Mono Paint Layer]

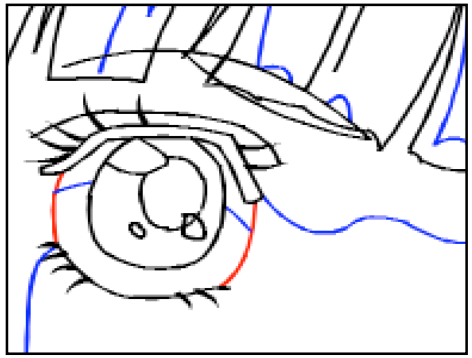
- Image as mono traced with TraceMan HD.
- The layer includes two planes: the [Outline] and the [Paint].



Vector traced image layer

[Vector Paint Layer]

- Image as vector traced with TraceMan HD.
- The layer includes two planes: the [Outline] and the [Color].



Export Function

Export to General Raster Image Format

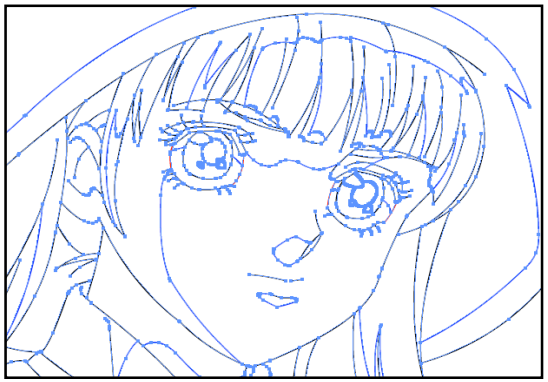
• This function allows you to export the image data to a general raster image format for passing the image data to a software other than the RETAS!PRO series.
• Export is possible on a scene, or on an image basis.

[Supported Export General Raster Image Formats]

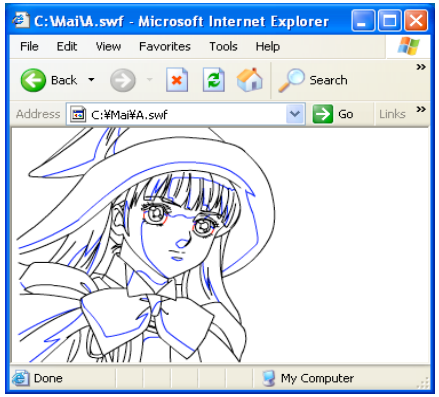
- BMP
- PICT
- PNG
- RAW
- SGI
- SOFTIMAGE
- TARGA
- TIFF

Export to EPS, SWF

• Data of drawings in vector format can be exported to general vector formats such as EPS and SWF.



[Example of Export to EPS]



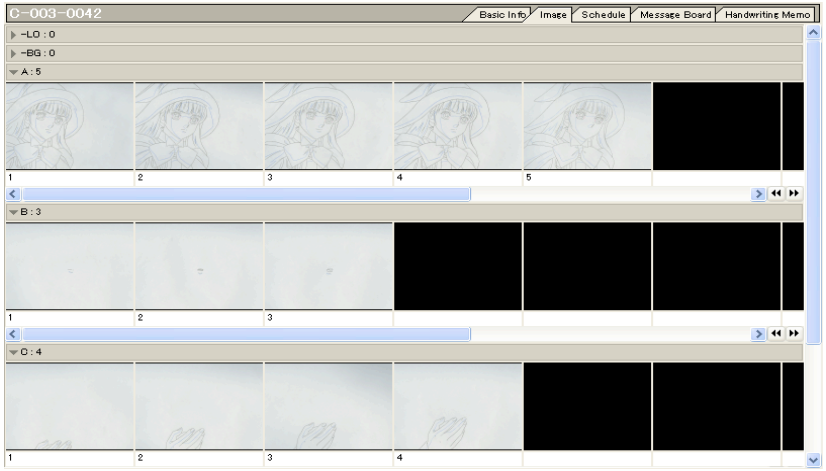
[Example of Export to SWF]

Exportable images are only those whose data are in vector format.

Management Functions (1)

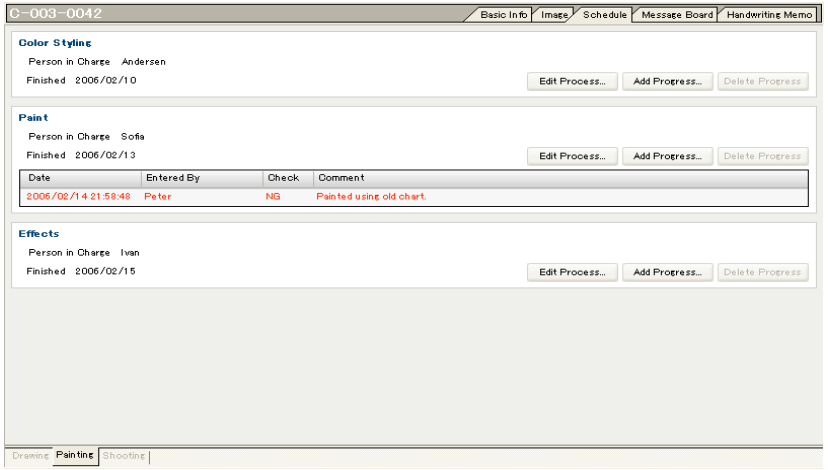
Image Browsing

• Using the Image Browsing function in the [File Browser] window, you will be able to access to all image data easily.
• This function is convenient when you need to check the content of a large amount of images such as in [Inbetween Check or Cel Check].



Schedule function

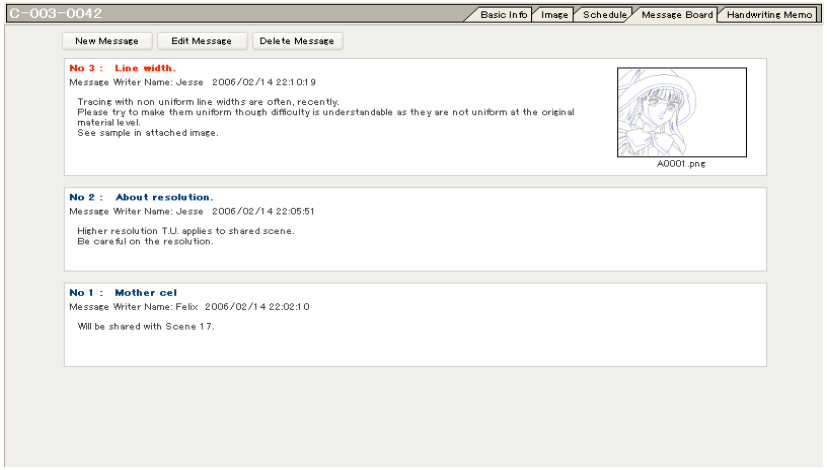
• This function allows you to record the progress of each process for the scene folder and enter data such as the person in charge and/or the finished date.
• This function is convenient for checking the scene progress history.



Management Functions (2)

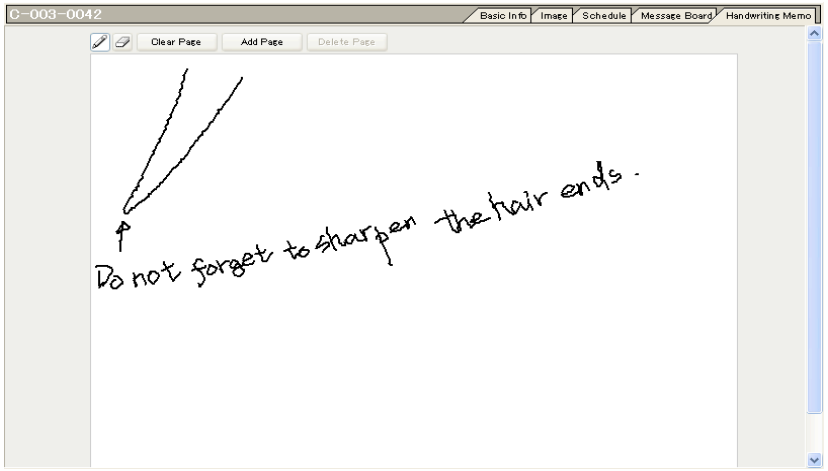
Message Board

• This function allows you to write directions, cautions, and messages to downstream processes in text format.
• You can also attach image files to comments.


C-003-0042
Basic Info
Image
Schedule
Message Board
Handwriting Memo
New Message
Edit Message
Delete Message
No 3 : Line width.
Message Writer Name: Jesse 2006/02/14 22:10:19
Tracing with non uniform line widths are often, recently.
Please try to make them uniform though difficulty is understandable as they are not uniform at the original material level.
See sample in attached image.
A0001.png
No 2 : About resolution.
Message Writer Name: Jesse 2006/02/14 22:05:51
Higher resolution T.U. applies to shared scene.
Be careful on the resolution.
No 1 : Mother cel
Message Writer Name: Felix 2006/02/14 22:02:10
Will be shared with Scene 17.

Handwriting Memo

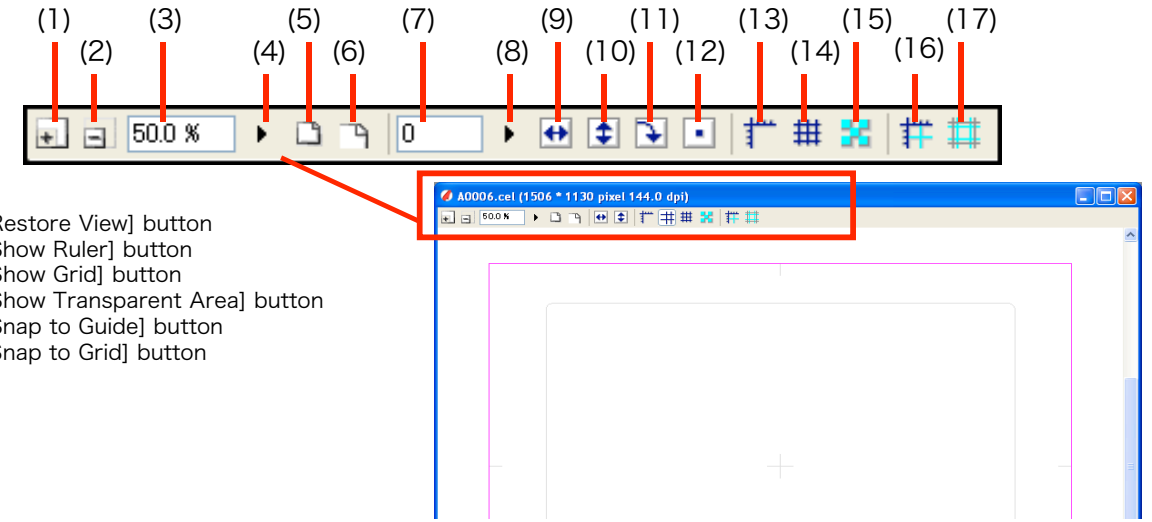
• This function allows you to insert diagrams and drawings to better explain directions, cautions, and messages to downstream processes.
• Handwriting Memo may comprise multiple pages.



Working Environment Improvements (1)

Cel window tool bar

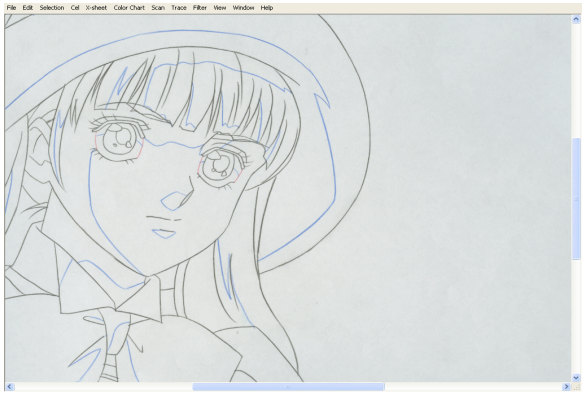
• The Cel window is equipped with a tool bar with frequently used functions. The tool bar is shown on the upper part of the window.



(1)... [Zoom In] button
(2)... [Zoom Out] button
(3)... [View Scale] field
(4)... [View Scale] slider
(5)... [Fit on Screen] button
(6)... [Actual Pixels] button
(7)... [Rotate] field (STYLOS HD only)
(8)... [Rotate] slider (STYLOS HD only)
(9)... [Flip Horizontal] button
(10)... [Flip Vertical] button
(11)... [Rotate 90 Degrees] button
(12)... [Restore View] button
(13)... [Show Ruler] button
(14)... [Show Grid] button
(15)... [Show Transparent Area] button
(16)... [Snap to Guide] button
(17)... [Snap to Grid] button

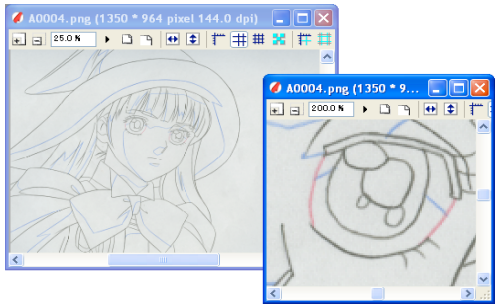
Full Screen mode

• This function allows you to view the Cel window at full screen by hiding other windows as well as palettes.



Multi-View function

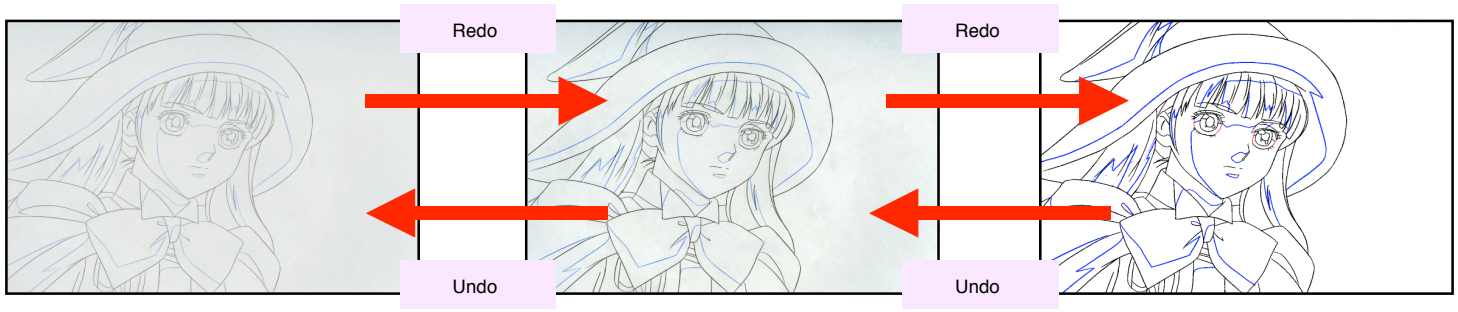
• This function allows you to open multiple windows on one image.
• This function also allows you have an amplified image along with a "Fit on Screen" image.



Working Environment Improvements (2)

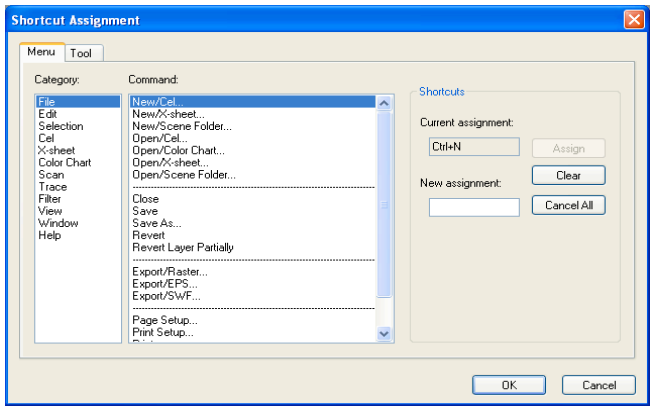
Multiple Undo-Redo

- This function allows you to undo multiple operations. (Maximum 20)
- This function allows you to redo the undone operations. (Maximum 20)



Shortcut Customization function

- The usability has been improved as a result of the support for [shortcut] assignment customization.



Price / System requirements - Windows version

TRACEMAN HD

IMAGE SCANNING & LINE TRACING TOOL

Scanning and tracing tool for animation that supports vector tracing and 48-bit scanning.

- Minimum image quality deterioration at tone adjustment because of the 48 bits (16 bits per channel) (maximum) scanning.
- Vector tracing function for converting inbetweens to vector images.

■TraceMan HD <Windows version>
Released on February 28, 2006
Genre: Graphics
Publisher: CELSYS, Inc.

•For price inquiries, please contact a distributor in your country.
The list of distributors is available at the following RETAS!PRO Web site:
http://www.retas.com/

[Package content]
Application CD-ROM
User's manual
Dongle, etc.

■OS
Microsoft Windows English Operating System (OS)
2000 Professional (Service Pack2 or higher necessary)
XP Home Edition
XP Professional
*1 Internet Explorer 5.01 or higher necessary.
*2 QuickTime 6.0 or higher recommended.

■CPU unit
PC/AT compatible machines only. Personal computers with the above mentioned OS preinstalled.
*1 Environment where the above mentioned OS operates comfortably.
*2 Computers not guaranteed by its manufacturer may not be supported.

■CPU
Intel® Pentium® or compatible processor 800 MHz or higher (2.0 GHz or higher recommended)

■Memory (**1)
512 MB or more necessary (1.0 GB or more recommended)

■Free Space on HDD (**1)
1.0 GB or more necessary (3.0 GB or more recommended)
For installation of application : Approximately 50 MB
For data and installation of dependent applications : Approximately 500 MB
As work space : 500 MB or more

■Monitor
XGA (1024x768) or higher resolution display, full-color (24 bits, 16.7 million colors)

■Scanner
Flat-bed scanner with TWAIN32 support (supporting ADF)
*1 Scanners and ADF other than operation confirmed not guaranteed. For details, please refer to RETAS!PRO website.
*2 Network scanning unsupported.

■Graphics Tablet (**2)
WACOM tablet recommended
FAVO, Intuos, Cintiq, PL series, etc.

■Supported input format
Image: BMP, CEL, DGA, LIF, PICT (*4), PNG, SGI, SKF, SOFTIMAGE, SVD (*1), TARGA, TIFF (*2)
Audio : AIFF (*3/*4), WAV (*3/*4)
*1 Rasterized after loading.
*2 LZW compression unsupported.
*3 Compression unsupported.
*4 QuickTime 6.0 or higher necessary.

■Supported output format
Image : BMP, CEL, EPS, PICT (*2), PNG, RAW, SGI, SOFTIMAGE, TARGA, TIFF (*1)
Video : FLASH
*1 LZW compression unsupported.
*2 QuickTime 6.0 or higher necessary.

■CD-ROM drive
CD-ROM (or DVD-ROM) drive necessary for installing the applications

■USB port
Necessary for dongle connection
*1 Only USB port built-in on the motherboard supported. Cannot be used with expansion USB ports implemented using third-party PCI cards.

**1 May differ depending on the system requirements.
**2 System requirements for using graphics tablet. Use of graphics tablet is optional.

Price / System requirements - Mac OS X version

TRACEMAN HD

IMAGE SCANNING & LINE TRACING TOOL

Scanning and tracing tool for animation that supports vector tracing and 48-bit scanning.

- Minimum image quality deterioration at tone adjustment because of the 48 bits (16 bits per channel) (maximum) scanning.
- Vector tracing function for converting inbetweens to vector images.

■Trace Man HD <Mac OS X version>
Released on February 28, 2006
Genre: Graphics
Publisher: CELSYS, Inc.

•For price inquiries, please contact a distributor in your country.
The list of distributors is available at the following RETAS!PRO Web site:
http://www.retas.com/

[Package content]
Application CD-ROM
User's manual
Dongle, etc.

■OS
Mac OS X English Operating System (OS)
10.3 (10.3.9)
10.4 (10.4.2 or higher)

■CPU unit
Macintosh computer with Power PC G5 or G4 processor
Power Mac G5/G4, iMac, eMac, Mac mini, PowerBook G4, iBook, etc.
*1 Environment where the above mentioned OS operates comfortably.
*2 Computers not guaranteed by its manufacturer may not be supported.

■CPU
PowerPC with G5 or G4 processor 800 MHz or higher (1.5 GHz or higher recommended)

■Memory (**1)
512 MB or more necessary (1.0 GB or more recommended)

■Free Space on HDD (**1)
1.0 GB or more necessary (3.0 GB or more recommended)
For installation of application: Approximately 50 MB
For data and installation of dependent applications: Approximately 500 MB
As work space: 500 MB or more

■Monitor
XGA (1024x768) or higher resolution display,, full-color (24 bits, 16.7 million colors)

■Scanner
Flat-bed scanner with TWAIN support (supporting ADF)
*1 Scanners and ADF other than operation confirmed not guaranteed. For details, please refer to RETAS!PRO website.
*2 Network scanning unsupported.

■Graphics Tablet (**2)
WACOM tablet recommended
FAVO, Intuos, Cintiq, PL series, etc.

■Supported input format
Image : BMP, CEL, DGA, PICT, PNG, SGI, SKF, SOFTIMAGE, SVD (*1), TARGA, TIFF (*2)
Audio : AIFF (*3), WAV (*3)
*1 Rasterized after loading.
*2 LZW compression unsupported.
*3 Compression unsupported.

■Supported output format
Image : BMP, CEL, EPS, PICT, PNG, RAW, SGI, SOFTIMAGE, TARGA, TIFF (*1)
Video : FLASH
*1 LZW compression unsupported.

■CD-ROM drive
CD-ROM (or DVD-ROM) drive necessary for installing the applications

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**1 May differ depending on the system requirements.
**2 System requirements for using graphics tablet. Use of graphics tablet is optional.